

ICECAPS-ACE Weekly Report

May 24th – May 30th, 2021

Dane Hansen



Another picture of the sun and the horizon.

Photo: Dane Hansen

General Notes:

This week we were visited by high winds and low visibility for the first time in close to a month. New science groups arrived and are getting settled into their projects and accommodations. General work at camp is focusing on digging out buried infrastructure in preparation for relocation later in the season. A new pad is being constructed for the relocation of the MSF as well.

General Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp (C)	Notes
05-24	12	11 kts at 114		4800	FEW033	- 26	
05-25	12	25 kts at 140		400	VV010	- 24	
05-26	12	32 kts at 183	FZFG BLSN	300	BKN022	- 23	Gusts to 35 kts
05-27	12	10 kts at 180	FZFG BLSN	9999	SCT	- 23	
05-28	12	22 kts at 123		1600	SCT	- 23	
05-29	12	13 kts at 113		9999	BKN045 BKN116 BKN168	- 24	
05-30	12	10 kts at 145		4800	BKN020	- 21	

Significant Weather Observations:

- 2021-05-28: pillar
- 2021-05-30: 22-degree halo

MSF

- 2021-05-25 1224 to 1226Z: Planned power outage.
- 2021-05-25 1237 to 1243Z: Unplanned power outage.
- 2021-05-25 1623 to 1624Z: Planned power outage.
- 2021-05-28 2046 to 2047Z: Unplanned power outage.
- Operating normally.

ICECAPS-ACE Data Management:

- 05-24: Data transfer completed at 0501Z.
- 05-25: Data transfer completed at 0451Z.
- 05-26: Data transfer completed at 0454Z.
- 05-27: Data transfer completed at 0512Z.
- 05-28: Data transfer completed at 0453Z.
- 05-29: Data transfer completed at 0454Z.
- 05-30: Data transfer completed at 0455Z.

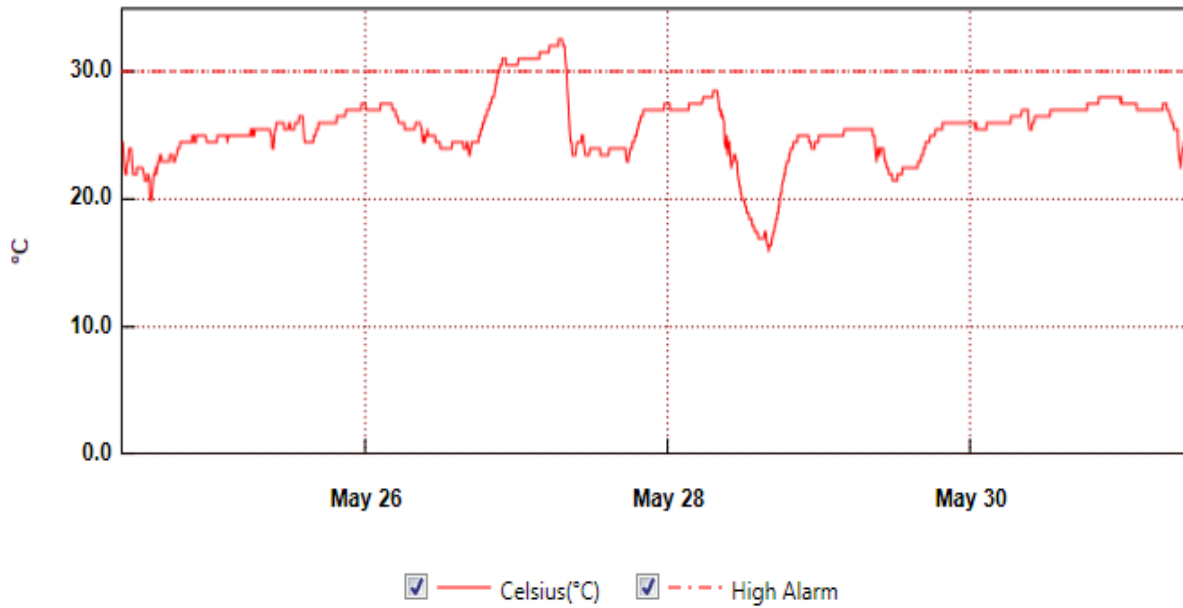
TSI:

- Operating normally.

Radiosonde:

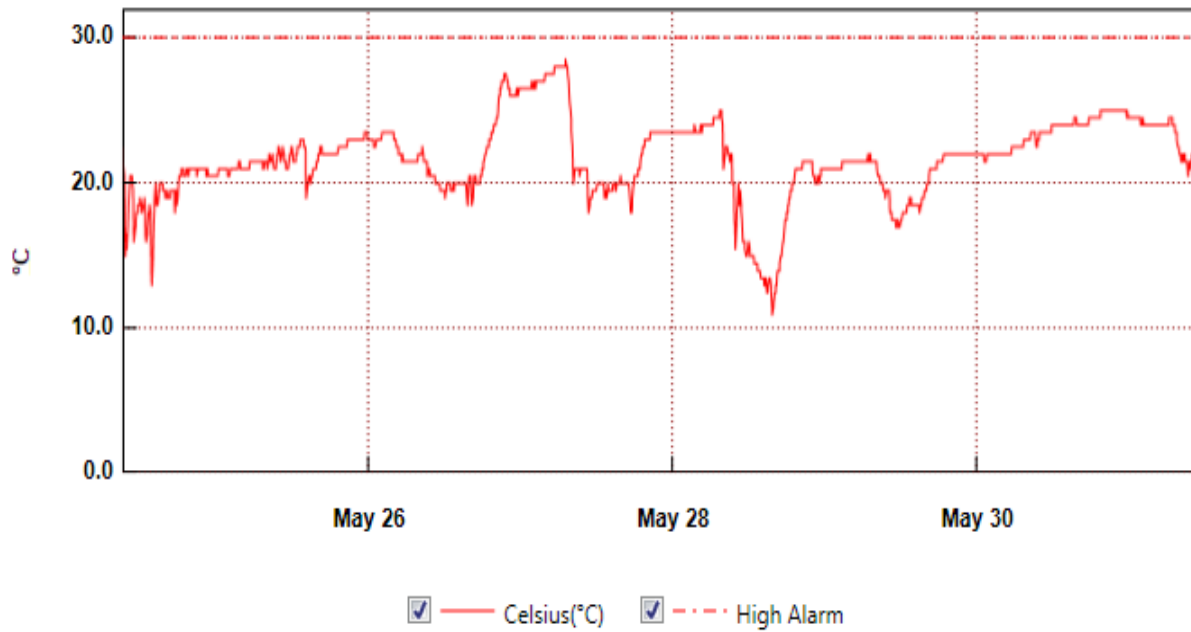
- Once daily launches.
- See chart below for radiosonde cabinet temperatures over the last week.

RadioSondeBase



From: Monday, May 24, 2021 9:12:06 AM - To: Monday, May 31, 2021 11:03:06 AM

SondeCabExt



From: Monday, May 24, 2021 9:11:00 AM - To: Monday, May 31, 2021 11:02:00 AM

MWR:

- HatPro boots and connects to software but shows ‘Master stepper error’ message. Troubleshooting in progress.
- Reassembly and box up?
- RPG-150-90 operating normally.

SODAR:

- 2021-05-24 1550 to 1600Z: Cleaned and levelled.
- Operating normally.

POSS:

- Operating normally.

MASC:

- Operating normally.

MMCR:

- Operating normally.

CAPABL:

- 2021-05-29 1816Z: Laser not firing – cycled voltage scan.
- Operating normally.

MPL:

- Operating normally.

CEILOMETER:

- Operating normally.

PAERI:

- 2021-05-11 0000Z: Instrument down and troubleshooting in progress.
- 2021-05-26 1955Z: Cleaned snow from enclosure.
- Operating normally.

IceCAM:

- Operating normally.

IcePIC:

- No IcePICs this week.

CPC:

- 2021-05-24 1544Z: Outlet filter changed.
- Operating normally.

MSF - OPC:

- Operating normally.

TAWO - OPC:

- Operating normally.

SKYOPC:

- Operating normally.

Fluxtower instrument suite:

- Operating normally.

Radiometers:

- 2021-04-07: Ongoing troubleshooting. Power supply box removed - instrument is offline pending repair.